
APPARATUS AND METHOD FOR AUTOMATICALLY SENSING
THRESHOLD HISTOGRAM WITH DIFFERENTIATION OF
5 SINUS FROM ECTOPIC BEATS

Abstract of the Invention

An implantable programmable cardiac stimulation device and
10 associated method for differentiating between normal sinus events and ectopic beats. The stimulation device monitors the sensing thresholds of sinus and non-sinus cardiac events, and stores a history of these sensing thresholds along with temporal data for accurate event detection. The stimulation device further provides accurate and appropriate detection of
15 sensed events including P-waves, non-conducted PACs, and conducted PACs and thus verifies correct detection of PVCs and R-waves. Furthermore, the present invention provides a history record of ectopic events, distinguished by sensing thresholds and timing intervals, giving a valuable diagnostic tool to the physician in optimizing rhythm
20 management therapy. In addition, the stimulation device allows the sensitivity threshold to be set based on a single cardiac cycle and past history.

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